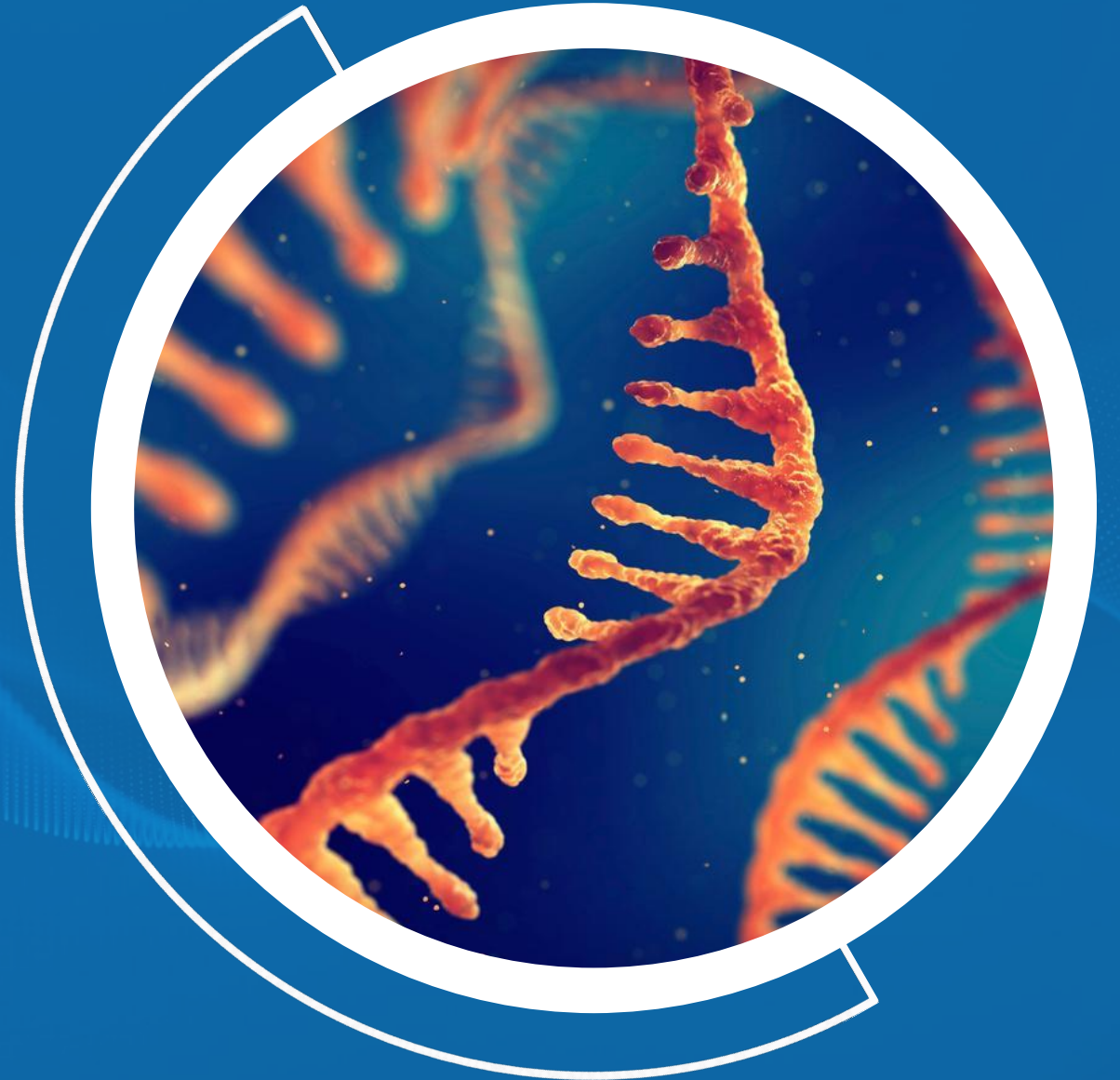


A market research report on

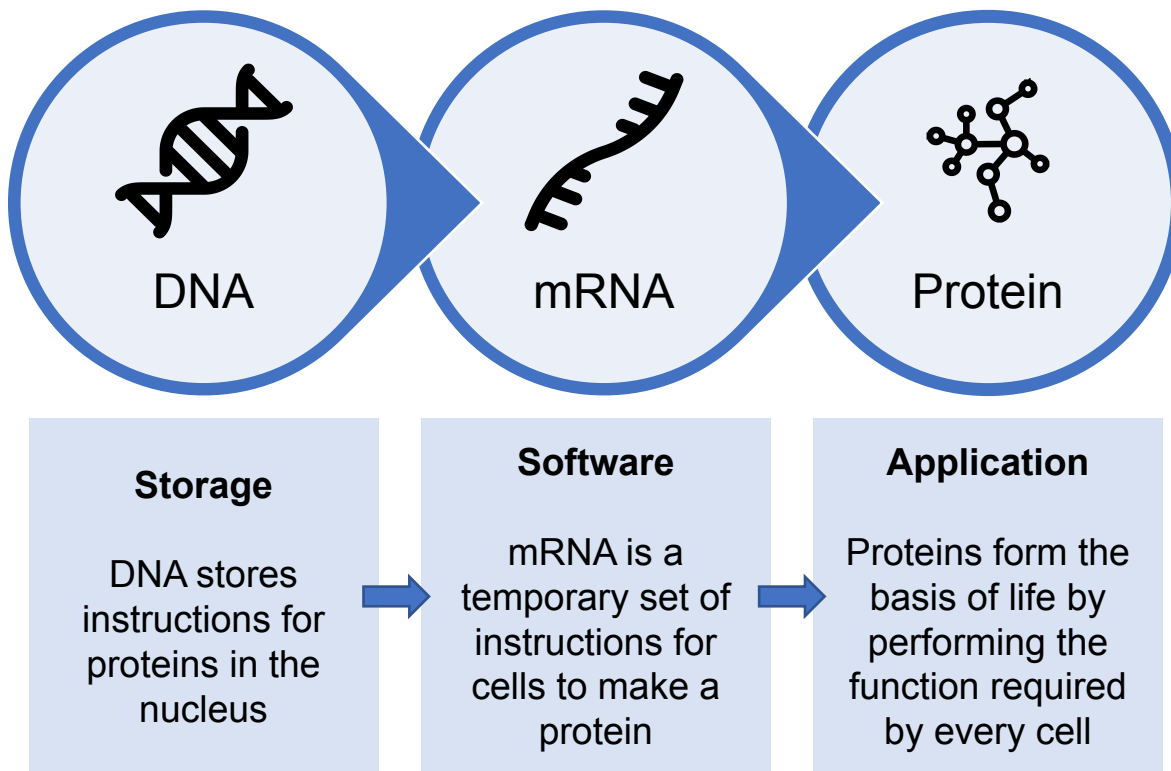
# From the Fringes to the Forefront: mRNA is here to Transform Global Health

insights10



# mRNA: The Understanding

*Discovered in 1960, mRNA stands for “messenger ribonucleic acid” or “messenger RNA”; basically the mRNA is **software of life***



## Advantages of mRNA:

- **Speed of design and scalability of manufacturing** mRNA over other vaccines and therapies has a very major advantage
- Another advantage that mRNA may offer over other more traditional vaccine types (such as live attenuated vaccines, inactivated vaccines and sub-unit vaccines) and over DNA based vaccines is **safety**
- mRNA is **non-infectious** and **non-integrating** (i.e. it does not cause DNA insertions) which gives it a further advantage over attenuated and DNA based vaccines

# mRNA Becomes the Rising Star of Nucleic Acid Therapy

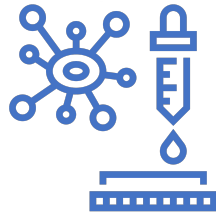
How does the mRNA works?

1



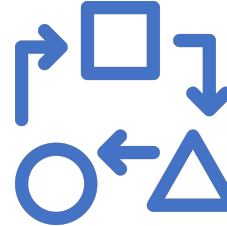
**mRNA** provides genetic instructions to make viral proteins

2



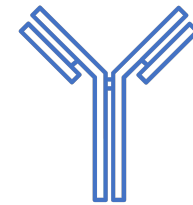
**Cellular machinery** follows the mRNA instructions to produce viral proteins

3



**Viral proteins** induce an immune response

4



**Antibodies** are ready to combat viral infection

- After decades of research and the accumulation of theoretical knowledge, the COVID-19 pandemic in early 2020 brought mRNA to the forefront as a new modality, and finally reached the tipping point in demonstrating its utility in infectious diseases
- mRNA vaccines, upon delivery, tell our cells to synthesize proteins, e.g., resembling those from the coronavirus (the SARS-Cov-2 spike proteins)
- This cellular generation of proteins then elicits an immune response in which the body produces virus-neutralizing antibodies even before infection with the real pathogen

# mRNA made Headlines in 2020

## Moderna is a leader in mRNA technology

mRNA made headlines in December 2020 when one of the world's first COVID-19 vaccines, developed by US-based pharmaceutical company Moderna, the National Institute of Allergy and Infectious Diseases (NIAID), and the Biomedical Advanced Research and Development Authority (BARDA), began rolling out to members of the public

Moderna's vaccine was developed at unprecedented speed, and its public launch marked a turning point in the pandemic. By the end of last year, the company had shipped more than 800 million vaccines worldwide, with approximately 25 percent shipped to low-to-middle income countries through direct sales or donations

The Company's mRNA platform is intrinsically flexible, allowing the company to move mRNA medicines quickly from idea to development candidate nomination. This means it can be used to contain future COVID outbreaks and manage yearly mutations, staying ahead of the virus' evolution

The company's manufacturing platform was designed so that it would not need to amend production processes to produce new boosters or mRNA vaccines

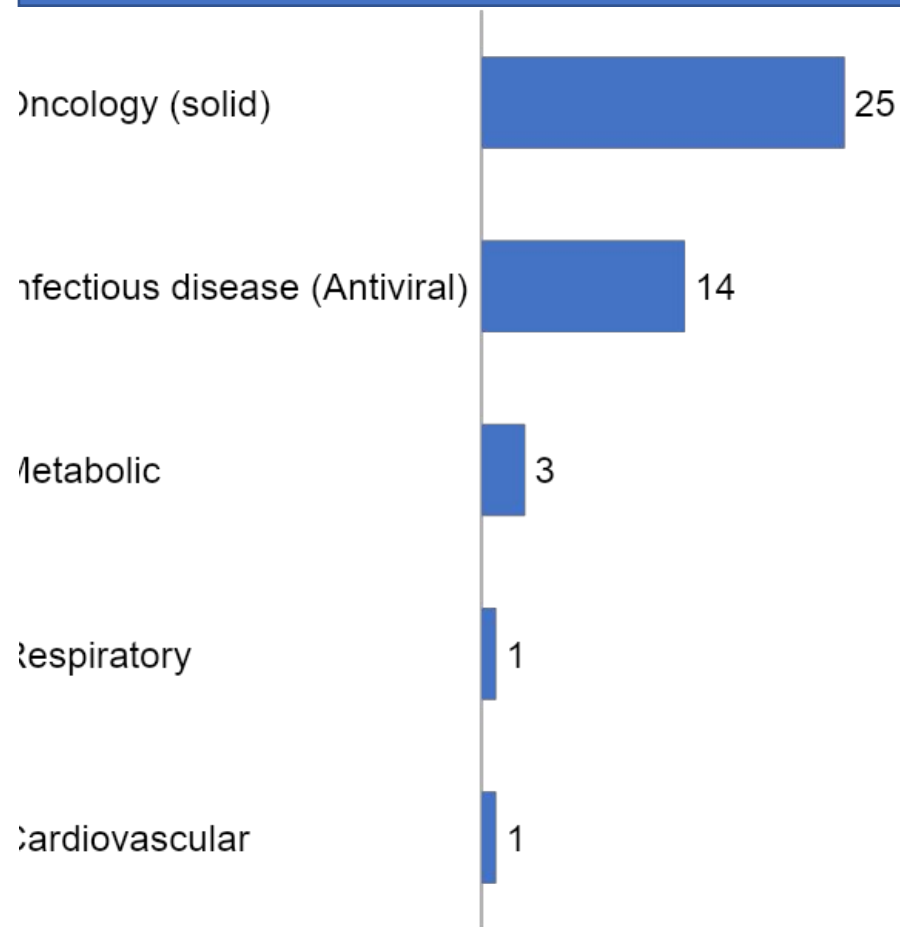
# mRNA Therapies: Clinical Pipeline Assets

44  
Assets

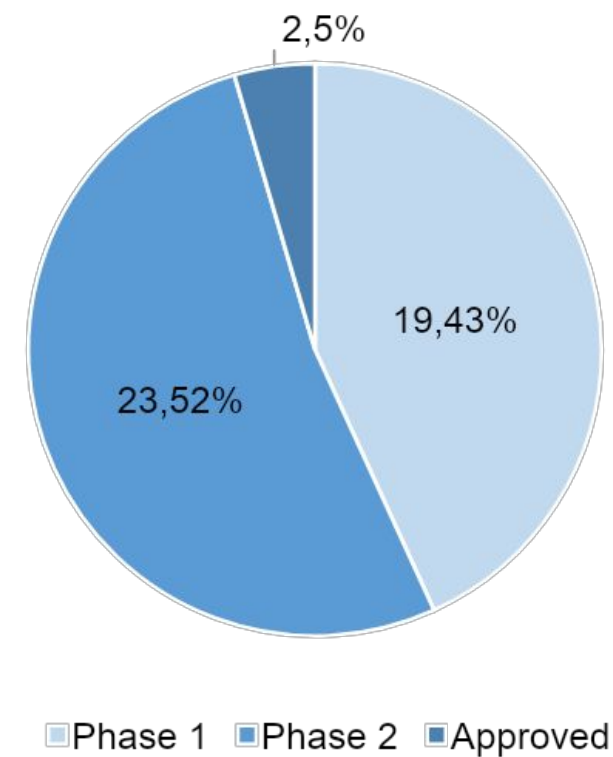
40  
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Line Items Split by Therapeutic Areas



Line Item Split by Clinical Phase



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## Topics of Upcoming Reports

- Will the Expiry of Humira Market Exclusivity and Entry of its Biosimilars Move the Needle in BioPharma Market?
- From the Fringes to the Forefront: mRNA is here to Transform Global Health
- Melting the Iron Triangle: 10 Healthcare Players aiming Beyond Health Equality to Conquer Health Equity
- Robotics: Embarking a New Era in Surgical Innovations
- Metaverse: Paving the way for Health 4.0
- Healthcare Future Outlook 2023
- Patient Engagement- a New Standpoint on Care that is Patient-Centered
- E-Rx, the Digital Version of Prescription Improvising the Chances of Better Patient Outcomes
- Integration of Healthcare Systems with Big Data and Data Silos



# Methodology & Scope

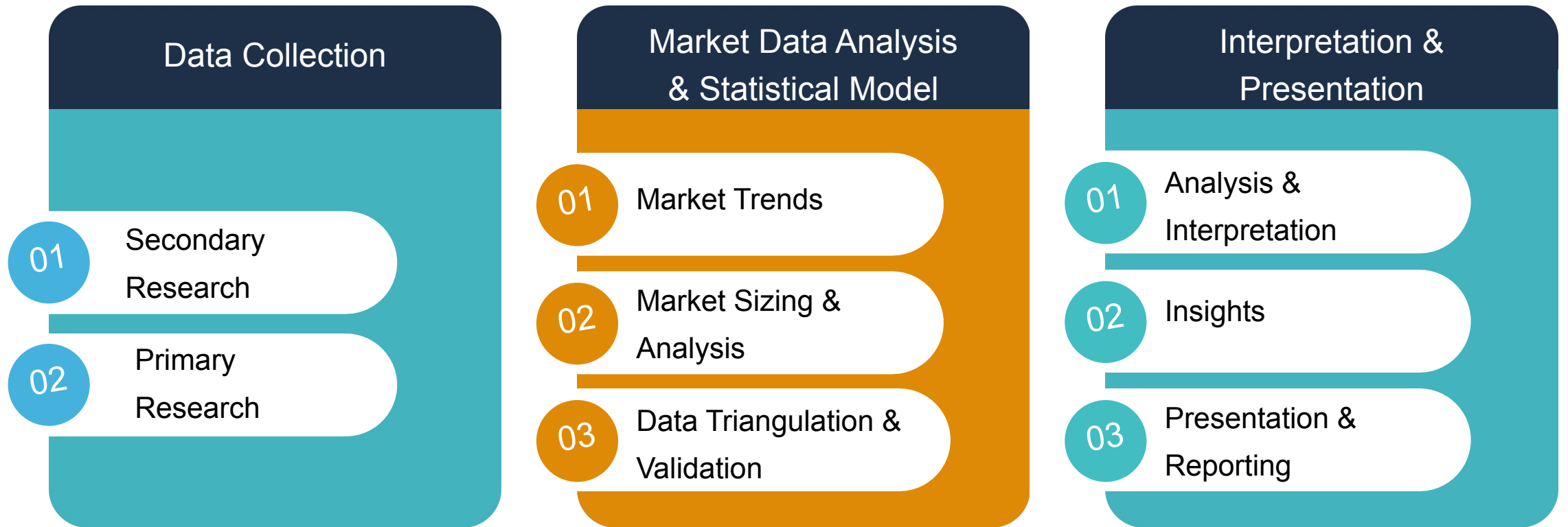


## Research Methodology

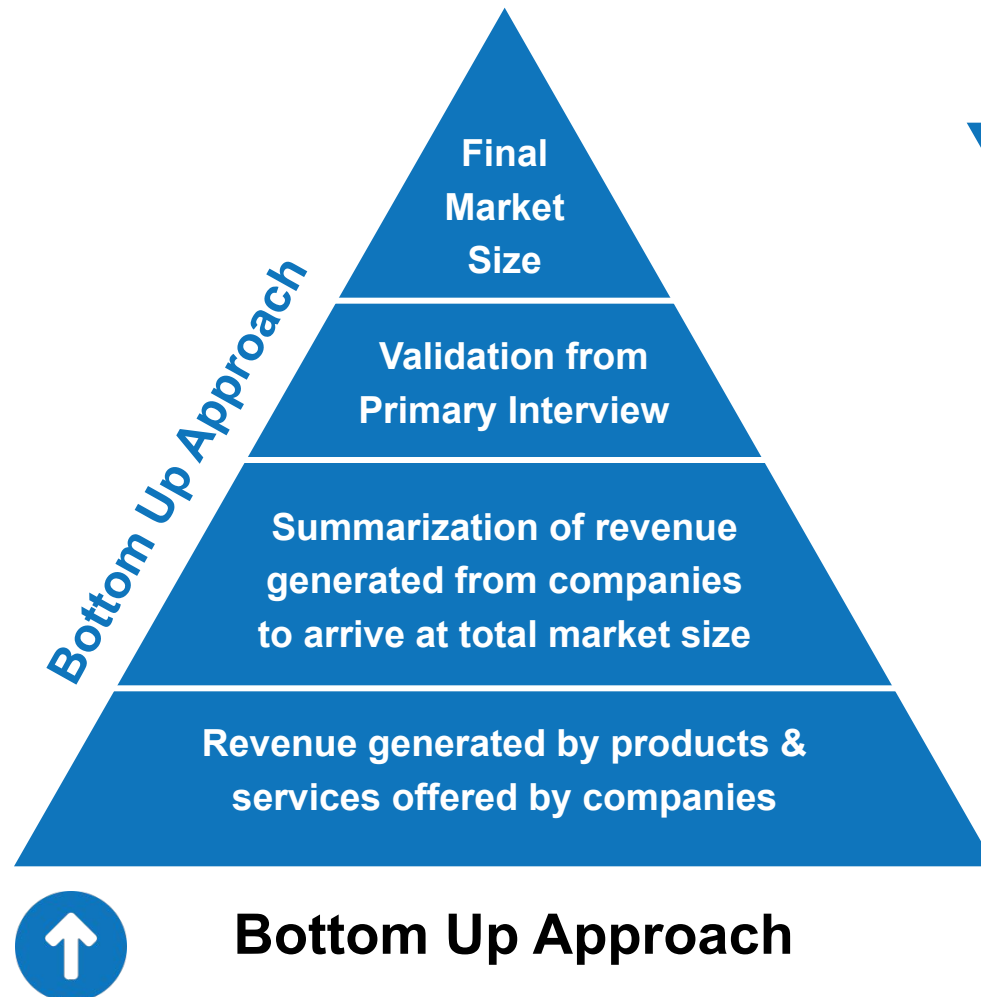
- Insights 10's research methodology delves deeper into the market, covering the macro and micro aspects of the industry. We identify the key growth drivers, opportunities, and restraints that might promote or hinder the future industry growth along with an expansive overview of the competitive landscape to help our clients make informed strategic decisions
- We implement a mix of primary and secondary research for our market estimate and forecast. The secondary research forms the initial phase of our study where we conduct extensive data mining, referring to verified data sources such as independent studies, government and regulatory published material, technical journals, trade magazines, and paid data sources
- For forecasting, the following parameters are considered:
  - ☐ Market drivers and restraints along with their current and expected impacts
  - ☐ Technological scenario and expected developments
  - ☐ End use industry trends and dynamics
  - ☐ Trends in the consumer behavior
  - ☐ Regulatory scenario and expected developments
  - ☐ Current capacity and expected capacity additions up to 2030
- We assign weights to these parameters and quantify their market impacts using the weighted average analysis to derive the expected market growth rate
- We appoint data triangulation strategies to explore different areas of the market. Our qualitative and quantitative assessments are time-sensitive, reflecting the most recent value and volume of the market across regions
- All our estimates and forecasts are verified through exhaustive primary research with the Key Industry Participants (KIPs)
- Currency used in the report is the US dollar (USD), with the market size indicated in USD million/billion (Mn/Bn)

# Analysis Methodology

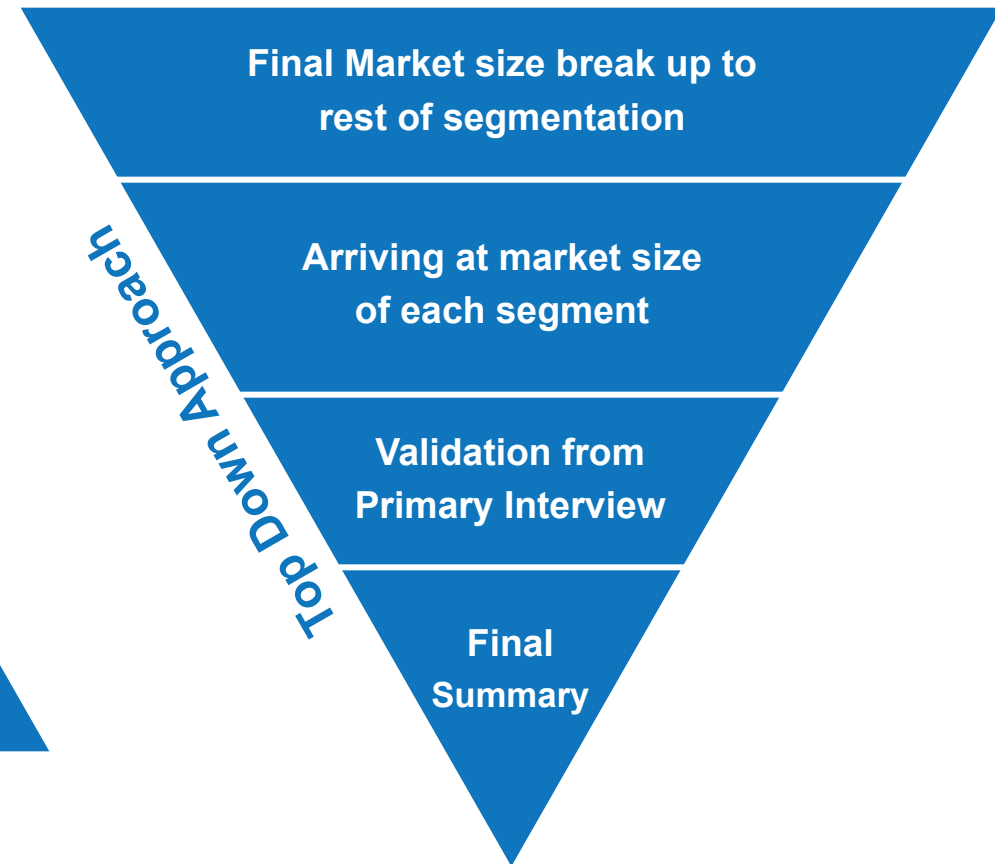
Our Analysis Methodology involves three critical stages:



# Data Triangulation & Data Validation



## Top Down Approach



## Key Benefits for Stakeholders from this Report

- Study provides an in-depth analysis of the market with current trends and future estimations to elucidate the imminent investment pockets
- Our tools provides stakeholders with a cohesive understanding of the industry outlook, considering the qualitative and quantitative industry variables
- Comprehensive analysis of factors that drive and restrict the market growth is provided
- Comprehensive quantitative analysis of the industry from 2021 to 2030F is provided to enable the stakeholders to capitalize on the prevailing market opportunities
- Extensive analysis of the key segments of the industry helps understand the applications and technologies used globally
- Our rigorous data collection, thorough statistical analysis and specialist assessments ensure that our clientele has a greater understanding of the industry space, supply chain, price fluctuations, competitive landscape, and other vital factors

Time Frame	Report Attribute	Details
<div><div>2021</div><div>2022-2030</div><div>Base Year for Estimation</div><div>Forecast Period</div></div>	Quantitative Units	Revenue in USD Million/Billion (Mn/Bn)
	Report Coverage	Market Overview, Revenue Forecast, Market Segmentation, Growth Factors and Trends, Company Profiles, Competitive Landscape, Regulatory Landscape, Future Opportunities
	Customized Report	Report Customization (5 working days) with purchase. We will provide you with data that is currently not a part of our scope as a part of customization
	Pricing and purchase options	Avail customized purchase options to meet your exact research needs

# What kind of Data is Presented in this Report?

This report presents data, which is:

## Reliable

The report is prepared using a proven methodology and insightful research

## Expert-verified

The data is prepared by a team of highly qualified & experienced research analysts & vetted by our local associates

## Real

Allowing you to confidently make smarter business and strategic decisions

## Comprehensive

Covers everything you would need to know about the market including market size, competitive analysis & much more

## Easy to read

You do not have to be a market expert to understand what really is happening on the market and how it works

The background is a solid blue color overlaid with a collage of faint, semi-transparent business analytics graphics. These include a bar chart with an upward-trending line graph in the top left, a donut chart with five segments labeled 15%, 17%, 36%, 18%, and 15% in the top right, a horizontal bar chart with three bars labeled 51%, 32%, and 17% in the middle left, and a bar chart with many thin bars in the middle right. In the bottom center, there is a faint image of a person's hands typing on a laptop keyboard. To the bottom left are some papers with charts and a pen, and to the bottom right is a magnifying glass and a tablet displaying a line graph.

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